

# DESIGN AND ENGINEERING ADVANCING VICTORIAN MANUFACTURING

*Advanced manufacturing is driven by competitive design and engineering capabilities, with Victoria recognised globally for leading edge and high quality products and expertise across a wide range of manufacturing sectors.*

## VICTORIA'S STRENGTHS

With such a skilled workforce, Victoria is the natural home to a strong base of design and engineering firms that are supporting and collaborating with leading SMEs and companies with a focus on local manufacturing. Victoria is also home to companies and research organisations that develop leading edge products, as well as those that apply their expertise to enable transformation in manufacturing processes.

## DESIGN AND ENGINEERING EDUCATION EXCELLENCE

The state's design and engineering excellence is built on Victoria's leading tertiary education sector which comprises 10 universities consistently ranked among the best in the world.

Design and engineering capabilities build on state of the art research infrastructure such as the Australian Synchrotron, Carbon Nexus, the Melbourne Centre for Nanofabrication, Monash Centre for Additive Manufacturing and the Swinburne University Factory of the Future.

**MANUFACTURING  
CONTRIBUTES  
TO VICTORIA'S  
ECONOMIC GROWTH**

\*GROSS VALUE ADDED IN 2015/16



## VICTORIA

PRODUCES 30% OF  
AUSTRALIA'S GRADUATES  
IN IT, ENGINEERING, SCIENCE  
& RELATED TECHNOLOGIES



## BUILDING ON AUTOMOTIVE EXCELLENCE

Victoria is home to many diverse success stories in advanced manufacturing. The state has a number of exceptional firms that have established their credentials through the automotive sector to deliver product engineering and integrated design and development solutions to clients around the world. Successful companies based in Victoria include:

- **Ford Motor Company** recently opening its Asia Pacific Product Development Centre in Melbourne, employing more than 1,750 highly skilled automotive designers, engineers and technicians.
- **Bosch** opened its new headquarters and technical and engineering centre in Melbourne in April 2016 with its \$40 million development, the single largest investment by the company in Australia.
- **Holden**, with its state of the art vehicle design centre and proving ground, continues to design and provide vehicle development services for the global market.

## LOCAL EXPERTISE, GLOBAL SUCCESS

A range of local companies are recognised globally for their excellence in translating ideas into cutting edge products, including breakthrough technologies across Victoria's manufacturing growth sectors. Notable success stories include:

- Victorian product design and engineering companies such as **Invetech, Grey Innovation, Hydrix, Tricycle Developments, Outerspace Design, SRX Global** and **Planet Innovation** are recognised globally for their excellence in translating ideas into cutting edge products, including breakthrough technologies across Victoria's manufacturing growth sectors.
- Geelong engineering company, **Austeng**, which specialises in the design, engineering, development and building of customised electromechanical machinery and systems. Austeng collaborated with Imagine Intelligent Materials to build the first commercial graphene plant in Australia.
- **Andrew Donald Design Engineering**, a specialist in the design and manufacture of industrial automation solutions. With a team of engineers, industrial designers and robotics experts, the team delivers projects for local and global companies for a range of industries including pharmaceutical, food, aviation, defence and automotive manufacturing.

## AUSTRALIA

OFFERS COMPANIES UP TO  
**43.5% TAX INCENTIVE**  
ON ELIGIBLE R&D EXPENSES



## MANUFACTURING IS #1

INDUSTRY FOR R&D  
SPENDING IN VICTORIA  
VICTORIA LEADS THE NATION

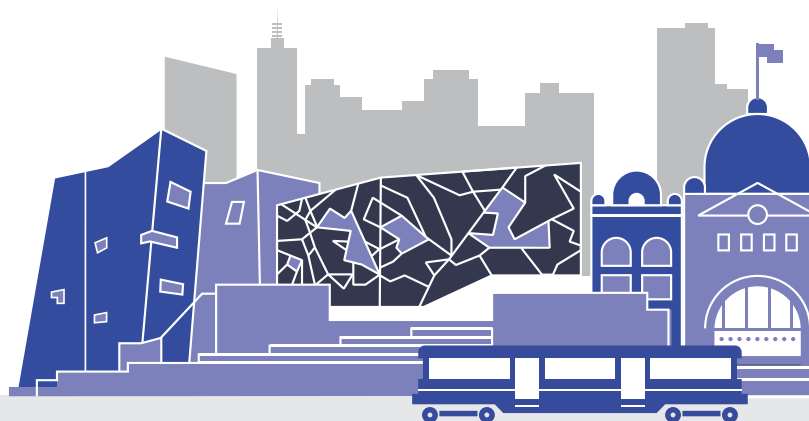
\*2013-14 LATEST DATA AVAILABLE



## MORE GLOBAL COMPANIES IN VICTORIA

Global companies choose to base R&D, design and engineering operations in Victoria to take advantage of local capabilities.

- Private sector companies are undertaking significant defence R&D in Victoria, including **BAE Systems, Thales, Siemens, BMT Design and Technology** and **Lockheed Martin** who are investing over \$13 million to establish a leading edge multi-disciplinary R&D facility in Melbourne.
- Leading international construction company, **Multiplex**, established the Multiplex Engineering Innovations Group (MEIG) in 2013, a multidisciplinary group of highly-skilled physicists, scientists and engineers focused on creating novel engineering solutions for building and engineering structures including lighter weight structures. Complementing the MEIG is Brookfields Scientific Solution (BSS), established in 2016, which is focused on introducing efficiencies.



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